Southern Nuclear

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Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of ITAAC 2.3.11.03c [Index Number 455]

Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), the purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the completion of Vogtle Electric Generating Plant (VEGP) Unit 4 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.3.11.03c [Index Number 455]. This ITAAC verifies that with a simulated high oxygen signal, the Gaseous Radwaste System (WGS) nitrogen purge valve opens and the Liquid Radwaste System (WLS) degasifier vacuum pumps stop. The closure process for this ITAAC is based on the guidance described in NEI 08-01, "Industry Guideline for the ITAAC Closure Process under 10 CFR Part 52," which was endorsed by the NRC in Regulatory Guide 1.215.

This letter contains no new NRC regulatory commitments. Southern Nuclear Operating Company (SNC) requests NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99.

If there are any questions, please contact Kelli Roberts at 706-848-6991.

Respectfully submitted,

Kelli Roberts for JMC

Jamie M. Coleman
Regulatory Affairs Director Vogtle 3 & 4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.11.03c [Index Number 455]

JMC/KIK/sfr

cc: Regional Administrator, Region II
Director, Office of Nuclear Reactor Regulation (NRR)
Director, Vogtle Project Office NRR
Senior Resident Inspector – Vogtle 3 & 4

Southern Nuclear Operating Company
ND-23-0569
Enclosure

Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.11.03c [Index Number 455]

ITAAC Statement

Design Commitment

3.c) The WGS is purged with nitrogen on indication of high oxygen levels in the system.

Inspections/Tests/Analyses

Tests will be performed to confirm that the presence of a simulated high oxygen level signal from the oxygen monitors (WGS-025A, -025B) causes the nitrogen purge valve (WGS-PL-V002) to open and the WLS degasifier vacuum pumps (WLS-MP-03A, -03B) to stop.

Acceptance Criteria

A simulated high oxygen level signal causes the nitrogen purge valve (WGS-PL-V002) to open and the WLS degasifier vacuum pumps (WLS-MP-03A, -03B) to stop.

ITAAC Determination Basis

Testing was performed in accordance with preoperational test procedure listed in Reference 1 to demonstrate that when a high oxygen level is simulated from the oxygen monitors (WGS-25A, -025B) the nitrogen purge valve (WGS-PL-V002) opens and the Liquid Radwaste System (WLS) degasifier vacuum pumps (WLS-MP-03A, 03B) stop.

The preoperational test procedure listed in Reference 1 ensured the WLS was aligned per the operating procedure, oxygen monitor B was removed from service, and that the WLS degasifier vacuum pump A (WLS-MP-03A) was running. A simulated high oxygen signal was generated from WGS oxygen monitor A (WGS-025A) and WGS-PL-V002 was verified to open and the running WLS degasifier vacuum pump A (WGS-025A) was verified to have stopped from main control room (MCR) indication. The test was then repeated using the opposite WLS degasifier vacuum pump B (WLS-MP-03B). This test sequence was then repeated using the WGS oxygen monitor B (WGS-025B) and WGS-PL-V002 was verified to open and degasifer vacuum pumps were verified to stop using MCR indication.

The results of this testing confirmed that a simulated high oxygen level signal caused the nitrogen purge valve (WGS-PL-V002) to open and the WLS degasifier vacuum pumps (WLS-MP-03A, -03B) to stop.

Reference 1 is available for NRC inspection as part of the Unit 4 ITAAC 2.3.11.03c Completion Package (Reference 2).

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all findings pertaining to the subject ITAAC and associated corrective actions. This review found there are no relevant ITAAC findings associated with this ITAAC. The ITAAC completion review is documented in the ITAAC 2.3.11.03c Completion Package (Reference 2) and is available for NRC review.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.11.03c was performed for VEGP Unit 4 and that the prescribed acceptance criteria were met.

Systems, structures, and components verified as part of this ITAAC are being maintained in their as-designed, ITAAC compliant condition in accordance with approved plant programs and procedures.

References (available for NRC inspection)

1. SV4-WGS-ITR-800455, Rev. 0, “Unit 4 Recorded Results of WGS Purged with Nitrogen on Indication of High Oxygen Levels: ITAAC 2.3.11.03c, NRC Index Number: 455”
2. 2.3.11.03c-U4-CP-Rev0, ITAAC Completion Package